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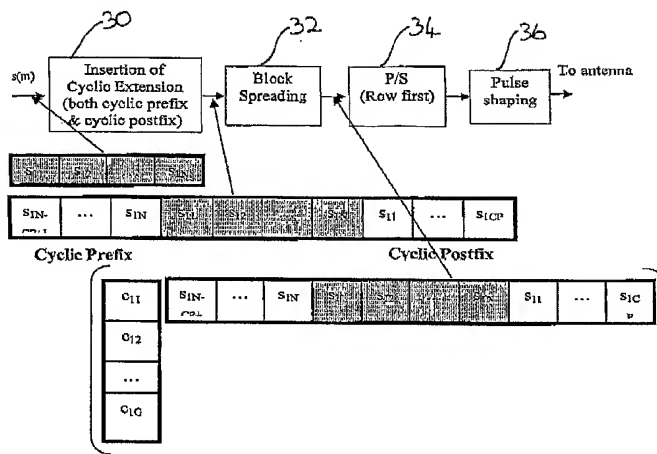
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(54) Title: A SYSTEM, A TRANSCEIVER STRUCTURE FOR USE THEREIN AND A METHOD OF PROCESSING SIGNALS IN SUCH A SYSTEM



(57) Abstract: A system such as a code division multiple access (CDMA) system or an ultrawide band (UWB) system comprises a transmitter and a receiver. The transmitter includes a sequence extender for extending the incoming signal and a spreader for spreading the extended signal, the spreader input being coupled to the sequence extender output. A pulse shaper is coupled to the spreader output to provide a transmitter output signal. The transmitter output signal which has an associated chip rate is received by the receiver and is passed to a filter to select a number of input signals from the received signals. The signal is the passed to a sequence extension remover for removing a number of chips from the signal. The received signal is despread to a symbol rate which is less than the chip rate at which the received signal was spread prior to being received by the receiver. A frequency domain equalizer is provided to form a frequency equalized signal from the modified signal.